

## **ABSTRACT:**

The present invention discloses a filtering mesh for an oil well, a sand control sleeve and a sand control screen pipe using the filtering mesh. The filtering mesh at least comprises a bottom diffusion mesh (20) and one or more twill weave meshes (21) fixed on the bottom diffusion mesh (20); one or more twill weave meshes (21) are applied in filtrating solid particulates in a stratum fluid, and the bottom diffusion mesh (20) is applied in diffusing the filtrated fluid. The bottom diffusion mesh (20) is a woven mesh or a punching steel plate mesh with 5-50 meshes; the aperture of the twill weave mesh (21) is 40-400 micron. The present invention also relates to a sand control sleeve formed of the filtering mesh, a tubular inner protective shroud (19) and a supporting ring (15). This invention further relates to a sand control screen pipe formed of the filtering mesh, a multi-holes base pipe (1), a tubular inner protective shroud (19), an outer protective shroud (3) and a supporting ring (15).